MINISTRY OF SUPPLY - D.L.R.D.(A)/R.A.E.

VALVE ELECTRONIC CV1506

Specification MOSA/CV1506 Issue 7 Dated 23.2.53 To be read in conjunction with K1001	SECURITY	
	Specification	Valve
	UNCLASSIFIED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Pentode

CATHODE - Directly Heated- thoriated

ENVELOPE - Glass-unmetallised

PROTOTYPE - 50/450A

MARKING

See K1001/4

RATING			Note
Filament Voltage	(V)	10.0	
Filament Current	(A)	13.0	
Max. Anode Voltage	(kV)	3.0	A
→ Max. Screen Voltage	(V)	850	A
Max. Anode Dissipation	(W)	450	A
Max. Screen Dissipation	(W)	100	A
Mutual Conductance	(mA/V)	6.5	B
Max. Anode Voltage for Frequency of 20 Mc/s	(V)	2250	

BASE

USL4

CONNECTIONS

Pin	Electrode
1	Screen Grid
2	Control Grid
3	Filament
4	Filament
TC1	Anode
TC2	Suppresser Grid

DIMENSIONS

See Drawing on Page 3

NOTES

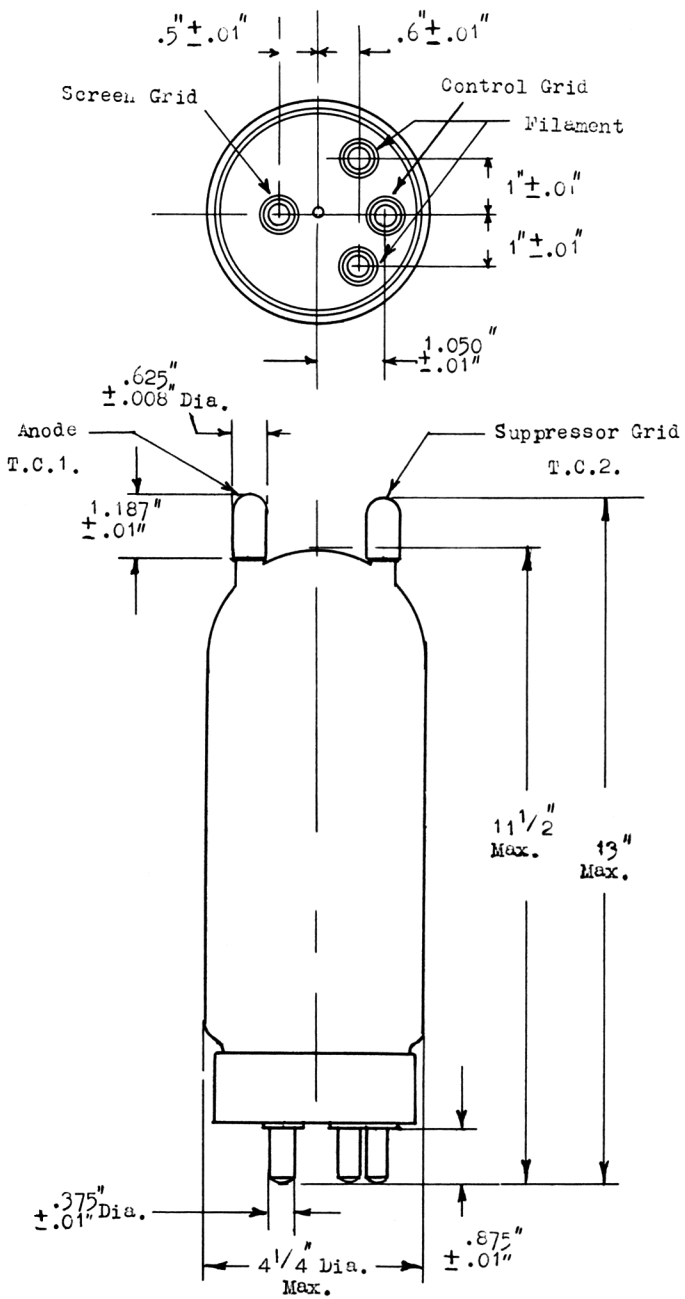
A. These ratings apply up to a maximum frequency of 10 Mc/s.

B. At Va = 3000, Vg2 = 600, Ia = 200 mA.

To be performed in addition to those applicable in K1001.

	Test Conditions						Test	Limits Min.	Limits Max.	No. Tested
a	See K1001 /AIII						CAPACITANCES (pF) Cae Cge Cag	 - - -	 30.0 50.0 0.4	 2% (10)
	Vf (AC)	Va	Vg3	Vg2	Vg1	Ia (mA)				
b	10.0	0	0	0		0	If (A)	12.4	13.6	100%
c	10.0	2500	0	600	-88	-	Ia (mA)	120	210	100%
d	10.0	2500	0	600	-88	-	Ig2 as % of value of Ia found in 'c'	-	6%	100% or S
e	10.0	2500	0	600	-88 to -93	-	gm (mA/V)	5.0	-	100%
f	10.0	2500	0	600	-	200	Ig1 (μA) after 15 mins. There shall be no increase in Ig1 during last 10 mins.	-	15.0	100%
g	10.0	1000	1000	1000	1000	-	Total space current (A)	7.5	-	100%
h	10.0	2500	+100 reduced to -100	600	Set to give Ia= 200 when Vg3 = 0	-	Reduction in Ia (mA)	30.0	-	100%

CV1506



Note: On finished valves allow an additional 0.1" for solder on both pins and top caps.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV1506 ISSUE 7 DATED 23.2.53

AMENDMENT No.1

Page 3. Outline Drawing

At foot of page insert the following note:

"NOTE. On finished valves allow an additional 0.1" for solder on both pins and top caps."

February, 1960.

Royal Aircraft Establishment

N.16337

JMS 26/4/60